



Part Number: 3072F

600V Twinax, (1 pr) 18 AWG (7x26) TC, FRPO/PVC,
Foil+TC Braid Shld, MSHA, CMG, TC

Product Description

One 18 AWG pair stranded (7x26) tinned copper conductors, flame-retardant polyolefin insulation, overall Beldfoil® (100% coverage) plus a tinned copper braid shield (55% coverage), PVC jacket.

Product Specifications

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	Nominal Diameter	No. of Pairs
18	7x26	TC - Tinned Copper	0.046 in	1
Total Number of Conductors:				2

Insulation:

Material	Nominal Diameter
FRPO - Flame Retardant Polyolefin	0.096 in

Color Chart 1:

Number	Color
1	Natural
2	Blue

Stranding:

Lay Length	Diameter
1.75 in	0.192 mm

Outershield 1:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	20	7x28 mm
Braid	2	TC - Tinned Copper		55 %			

Outerjacket 1:

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.324 in

Electrical Characteristics

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
6.9 Ohm/1000ft	3.2 Ohm/1000ft

Capacitance:

Nom.Mutual Capacitance
19.5 pF/ft

Impedance:

Nominal Characteristic Impedance
78 Ohm

High Frequency (Nominal/Typical):

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.52 db/100ft
10 MHz	1.98 db/100ft
50 MHz	3.78 db/100ft
100 MHz	5.35 db/100ft
200 MHz	7.57 db/100ft
400 MHz	10.7 db/100ft

Delay:

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
1.58 ns/ft	64.5 %

High Freq:

Frequency [MHz]
1 MHz
10 MHz
50 MHz
100 MHz
200 MHz
400 MHz

Inductance:

Nominal Inductance
0.12 μ H/ft

Voltage:

UL Voltage Rating
600 V RMS (NEC Type TC)
300 V RMS (NEC Type PLTC)
300 V RMS (NEC Type CMG)

Use

Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	85 lbs

Safety

C(UL) Flammability:	FT4
IEEE Flammability:	1202
UL Flammability:	UL1685 UL Loading

Temperature Range

Operating Temp Range:	-40°C To +75°C
UL Temp Rating:	75°C Dry

Mechanical Characteristics

Min Bend Radius/Minor Axis:	3.25 in
-----------------------------	---------

Part Number

Plenum (Y/N):	No
---------------	----

Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
PMSHA Specification:	PMSHA Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

Notes:	For CPE jacketed version order Part No. YM45044.
---------------	--

Product Variants

Part Number	Color	Put-Up Type	Length
3072F C5510000	BLUE, CAIRO	Reel	10000 ft
3072F C551000	BLUE, CAIRO	Reel	1000 ft
3072F C552500	BLUE, CAIRO	Reel	2500 ft
3072F C55250	BLUE, CAIRO	Reel	250 ft
3072F C555000	BLUE, CAIRO	Reel	5000 ft
3072F C55500	BLUE, CAIRO	Reel	500 ft
MD1810 C551000	BLUE, CAIRO	Reel	1000 ft

© 2016 Belden, Inc

All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.